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Attorney's Docket No.: 13681-012001

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Otterbein et al.

Art Unit: 1614

Serial No.: 10/600,182

Examiner: Unknown

Filed

: June 20, 2003

Title

: PHARMACEUTICAL USE OF NITRIC OXIDE, HEME OXYGENASE-1 AND

PRODUCTS OF HEME DEGRADATION

MAIL STOP AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), copies of any listed U.S. patents or U.S. patent application publications will be provided upon request.

This statement is being filed before a first Office action on the merits. Please apply any other charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket No. 13681-012001.

Respectfully submitted,

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Supstitute Form PTO-1449

U.S. Department of Commerce Patent and Trademark Office

Attorney's Docket No. 13681-012001

Application No. 10/600,182

Information Disclosure Statement **by Applicant** (Use several sheets if necessary)

Otterbein et al.

Filing Date

**Applicant** 

Group Art Unit

June 20, 2003 1614

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A1	US 2004/0197271 A1	Oct. 7, 2004	Kunka et al.			
	A2	US 2003/0068387 A1	Apr. 10, 2003	Buelow et al.			
	A3	US 2004/0067261 A1	Apr. 8, 2004	Haas et al.			
	A4	5,664,563	Sep. 9, 1997	Schroeder et al.			
	A5	5,731,326	Mar. 24, 1998	Hart et al.			
	A6	5,914,316	Jun. 22, 1999	Brown et al.			
	A7	US 2005/0048133 A1	Mar. 3, 2005	Pinsky et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass		lation No
	B1	WO 98/13058	04/02/1998	WIPO				
	B2	FR 2 816 212	05/10/2002	France			X	

	Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner Initial	Desig. ID	Document			
	C1	Choi, "HemeOxygenase-1 Protects the Heart," Circulation Research 89:105-107 (2001)			
	C2	Clayton et al., "Inhaled carbon monoxide and hyperoxic lung injury in rats," Am. J. Physiol. Lung Cell Mol. Physiol. 281:L949-57 (2001)			
	C3	Fujita et al., "Paradoxical rescue from ischemic lung injury by inhaled carbon monoxide driven by derepression of fibrinolysis," Nature Medicine 7:598-604 (2001)			
	C4	Hayes et al., "A Review of Modern Concepts of Healing of Cutaneous Wounds," J. Dermatol. Surg. Oncol. 3(2):188-93 (1977)			
	C5	Kyokane et al., "Carbon Monoxide From Heme Catabolism Protects Against Hepatobiliary Dysfunction in Endotoxin-Treated Rat Liver," Gastroenterology 120:1227-40 (2001)			
	C6	Lee et al., "Intestinal Motility and Absorption in Acute Carbon Monoxide Poisoning," Seoul J. Med. 15:95-105 (1974); English translation			
	C7	Libby and Pober, "Chronic Rejection," Immunity 14:387-97 (2001)			
	C8	Moore et al., "Inhaled Carbon Monoxide Suppresses the Development of Postoperative Ileus in the Murine Small Intestine," Gastroenterology 124:377-91 (2003)			
	C9	Moore et al., "Pre-treatment with Low Concentrations of Carbon Monoxide (250 TO 75 ppm) for 3 hr prior to Laparotomy Protects Against Postoperative Ileus," Digestive Disease Week abstracts and Itinerary Planner 2003: Abstract No. M1337 (2003)			
	C10	Nachar at al., "Low-Dose Inhaled Carbon Monoxide Reduces Pulmonary Vascular Resistance During Acute Hypoxemia in Adult Sheep," High Altitude Medicine & Biology 2:377-385 (2001)			

Examiner Signature	Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13681-012001	Application No. 10/600,182
by Am	closure Statement	Applicant Otterbein et al.	
(Use several sh	eets if necessary)	Filing Date June 20, 2003	Group Art Unit 1614
(37 CF §1.98(b))			

	Other Documents (include Author, Title, Date, and Place of Publication)					
Examiner Initial	Desig. ID	Document				
	C11	Nakao et al., "Immunomodulatory effects of inhaled carbon monoxide on rat syngeneic small bowel graft motility," Gut 52:1278-85 (2003)				
	C12	Otterbein LE, Choi AMK, "Carbon monoxide at low concentrations causes growth arrest and modulates tumor growth in mice," [Abstract], Am. J. Respir. Crit. Care Med. 163:A476 (2001)				
	C13	Otterbein et al., "Carbon monoxide suppresses arteriosclerotic lesions associated with chronic graft rejection and with balloon injury," Nature Medicine 9:183-90 (2003)				
	C14	Pannen et al., "Protective Role of Endogenous Carbon Monoxide in Hepatic Microcirculatory Dysfunction after Hemorrhagic Shock in Rats," J. Clin. Invest. 102:1220-1228 (1998)				
	C15	Peek et al., "Extracorporeal Membrane Oxygenation for Adult Respiratory Failure," Chest 112(3)759-64 (1997)				
	C16	Zuckerbraun et al., "Carbon monoxide attenuated the development of necrotizing enterocolitis in an animal model," Surgical Infection Society 3:83 (2002)				
	C17					

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if no	t in conformance and not considered. Include copy of this form with
next communication to applicant.	0.1.67.4.70